

OS Macadamia integrifolia.
 PH Location/Qualifiers
 FT 1. 28
 FT Peptide
 FT /note= "signal peptide"
 FT 29..666
 FT /note= "mature protein"
 PN WO9827805-A1.
 PD 02 JUL 1998.
 PF 22-DEC-1997; AU0874.
 PR 00-DEC-1996; AU-004275.
 PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
 PI BOWER NI, Goultier KC, Green JL, Manners JM, Marcus JP;
 DR WPI; 98-37279/32.
 N-PSDB; V42310.
 PT Novel anti-microbial protein from e.g. Macadamia integrifolia -
 Novel for controlling microbial infestations of plants or mammals
 Claim 1; Page 34-36; 96pp; English.
 CC The sequence is that of an antimicrobial protein which can
 be used to control microbial infestations in plants and mammalian
 animals. 666 AA;

Query Match 96.1%; Score 517; DB 1; Length 666;
 Best Local Similarity 95.7%; Pred. No. 2. 29e-34; 2; Mismatches 1; Indels 0; Gaps 0;
 Matches 66; Conservative

Db 117 NRQDPOQQEQCQKHCORRETEPRHMQTCQQRERRYKEKKRQKVEEQPREDEEKY 176
 OS ||||| :|||:|||||:|||:|||||:|||:|||||:|||:|||||:|||:|||||:|||:|||||:
 KW Macadamia integrifolia.
 FT Antimicrobial protein; infestation; control.
 Key Peptide
 FT Location/Qualifiers
 FT 1..28
 FT /note= "signal peptide"
 FT Protein
 FT 29..666
 FT /note= "mature protein"
 PN WO9827805-A1.
 PD 02-JUL-1998.
 PF 22-DEC-1997; AU0874.
 PR 20-DEC-1995; AU-004275.
 PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
 PI BOWER NI, Goultier KC, Green JL, Manners JM, Marcus JP;
 DR WPI; 98-37279/32.
 PT Novel anti-microbial protein from e.g. Macadamia integrifolia -
 Useful for controlling microbial infestations of plants or mammals
 Claim 1; Page 47-49; 96pp; English.
 CC The sequence is that of an antimicrobial protein which can
 be used to control microbial infestations in plants and mammalian
 animals.

Sequence 525 AA;

SQ

RESULT 3

ID W62830 standard; Protein; 625 AA.
 AC W62830;
 DT 27-oct-1998 (first entry)
 DE Macadamia integrifolia antimicrobial protein.
 KW antimicrobial protein; infestation; control.
 OS Macadamia integrifolia.

Key Peptide
 FT Location/Qualifiers
 FT 1..28
 FT /note= "signal peptide"
 FT Protein
 FT 29..666
 FT /note= "mature protein"
 PN WO9827805-A1.
 PD 02-JUL-1998.
 PR 22-DEC-1997; AU0874.
 PT 20-DEC-1995; AU-004275.
 PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
 PI BOWER NI, Goultier KC, Green JL, Manners JM, Marcus JP;
 DR WPI; 98-37279/32.
 N-PSDB; V42316.
 PT Novel anti-microbial protein from e.g. Macadamia integrifolia -
 Useful for controlling microbial infestations of plants or mammals
 PS Claim 1; Page 43-45; 96pp; English.
 CC The sequence is that of an antimicrobial protein which can
 be used to control microbial infestations in plants and mammalian
 animals.

Sequence 625 AA;

Query Match 95.2%; Score 512; DB 1; Length 625;
 Best Local Similarity 94.2%; Pred. No. 6. 1le-34; 1; Mismatches 3; Indels 0; Gaps 0;
 Matches 55; Conservative

Db 76 NRQDPOQQEQCQKCORRETEPRHMQTCQQRERRYKEKKRQKVEEQPREDEEKY 135
 OS ||||| :|||:|||||:|||:|||||:|||:|||||:|||:|||||:|||:|||||:
 KW NRQDPOQQEQCQKCORRETEPRHMQTCQQRERRYKEKKRQKVEEQPREDEEKY 176
 CC

Db 136 ERMKEEDN 144
 OS ||||| :|||:

RESULT 5

ID R20181 standard; Protein; 566 AA.
 AC R20181;
 DT 16-APR-1992 (first entry)
 DE Sequence encoded by 67 kD T. cacao protein cDNA.
 KW Cocoa; flavour; vicilin; seed storage protein.
 OS Theobroma cacao.
 PN WO9119801-A.
 PD 26-DEC-1991.
 PR 07-JUN-1991; GB00934.
 PT 11-JUN-1990; GB-013016.
 PA (MASC) MARS UK LTD.
 PI Spencer ME, Hodge R, Deakin EA, Ashton S;
 DR WPI; 92-024418/03.
 N-PSDB; Q20377.
 PT Recombinant cocoa proteins - are responsible for flavour in cocoa
 beans and produced in large quantities using yeast and bacterial
 expression vectors.
 PS Claim 4; Fig 2; 55pp; English.
 CC The inventors claim a 67 kD T. cacao protein, and
 fragments, and encoding DNAs. The 47 kD and 31 kD proteins are
 derived from the 67 kD precursor. T. cacao protein cDNA was
 detected in a cDNA library prepared from immature cocoa beans RNA
 using a probe based on the AA sequence of a charr peptide common to
 the 47 kD and 31 kD polypeptides. Homology searches revealed close
 homologies between the 67 kD polypeptide and the vicilins, which are
 seed storage proteins.

SQ Sequence 566 AA;

Query Match 40.9%; Score 220; DB 1; Length 566;
 Best Local Similarity 48.5%; Pred. No. 1.4te-09; 1; Mismatches 17; Indels 4; Gaps 3;
 Matches 32; Conservative

Db 35 ERUPRQEQCQCRSEATEPRERQEQEOREYKEQQQE--DELQRQYQO-COG 90
 OS ||||| :|||:|||||:|||:|||||:|||:|||||:|||:|||||:|||:|||||:
 KW

